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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

11/06/2003

Woodcock Washburn Kurtz Mackiewicz & Norris LLP One Liberty Place 46th Floor Philadelphia, PA 19103 EXAMINER

RIOS CUEVAS, ROBERTO JOSE

ART UNIT PAPER NUMBER

2836 DATE MAILED: 11/06/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/690,183	10/17/2000	Tadayoshi Kachi	TALW-0152	1660

TITLE OF INVENTION: POWER CONVERTING METHOD AND APPARATUS

į	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1330	\$0	\$1330	02/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fa</u>	<u>ax</u>	(703) 746-4000	,			
INSTRUCTIONS: This for appropriate. All further corindicated unless corrected be maintenance fee notification	m should be used for tran respondence including the lelow or directed otherwise s.	smitting the ISSU Patent, advance ord in Block 1, by (a	E FEE and PU ders and notific) specifying a r	JBLIC cation new co	ATION FEE (if requ of maintenance fees v orrespondence address	ired). Blocks I through 4 s will be mailed to the current ; and/or (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for		
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 11/06/2003					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
	ourn Kurtz Mackiew	ioz & Norrie I	I I D			rtificate of Mailing or Trans			
One Liberty Place 4 Philadelphia, PA 19	16th Floor	102 & 1 1 01113 1	DDI		I hereby certify that the States Postal Service addressed to the Ma transmitted to the USI	that this Fee(s) Transmittal is being deposited with the Unice with sufficient postage for first class mail in an envious Mail Stop ISSUE FEE address above, or being face USPTO, on the date indicated below.			
							(Depositor's name) (Signature)		
							(Date)		
APPLICATION NO.	FILING DATE		FIRST NAMED I	INVEN					
09/690,183	10/17/2000		Tadayoshi	Kachi		TALW-0152	1660		
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RIOS CUEVAS,		2836			J				
1. Change of correspondence CFR 1.363).		ee Address" (37	names of u	p to	the patent front page, 3 registered patent a	ttorneys or 1			
☐ Change of corresponde Address form PTO/SB/12	ence address (or Change of (22) attached.	Correspondence	firm (having	g as a	atively, (2) the name member a registered	attorney or 2			
The Address indication (or "For Address" Indication forms agent) and the				agent	names of up to 2 registered patent nts. If no name is listed, no name				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	THE PATENT ((print o	or type)				
PLEASE NOTE: Unless been previously submitte (A) NAME OF ASSIGN					patent. Inclusion of a ion of this form is NO Y and STATE OR CO	ssignee data is only appropri T a substitute for filing an ass UNTRY)	ate when an assignment has ignment.		
Please check the appropriate	assignee category or category	ries (will not be pr	inted on the pat	tent);	individual •	corporation or other private g	roup entity 🚨 government		
4a. The following fee(s) are	enclosed:	4b	. Payment of Fe	ee(s):					
				ount of the fee(s) is en					
☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached.									
Advance Order - # of	Copies		Deposit Accou	orish unt Nu	ereby authorized by c	harge the required fee(s), or (enclose an extra of	credit any overpayment, to copy of this form).		
Director for Patents is reque	sted to apply the Issue Fee a	nd Publication Fee	(if any) or to re	e-apply	any previously paid i	ssue fee to the application ide	entified above.		
(Authorized Signature)		(Date)	-			-			
NOTE; The Issue Fee and	l Publication Fee (if requir	ed) will not be ac	cepted from an	yone					

interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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Woodcock Washburn Kurtz Mackiewicz & Norris LLP			RIOS CUEVAS, F	RIOS CUEVAS, ROBERTO JOSE		
One Liberty Place 4 Philadelphia, PA 19		•	ART UNIT	PAPER NUMBER		
• ,			2836			
			DATE MAILED: 11/06/2003	3		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 339 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 339 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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	burn Kurtz Mackiewicz &	RIOS CUEVAS, F	RIOS CUEVAS, ROBERTO JOSE		
One Liberty Place 4 Philadelphia, PA 19			ART UNIT	PAPER NUMBER	
,			2836		

DATE MAILED: 11/06/2003

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

By other than a small entity.....\$480.00

(c) Issue fee for issuing a plant patent:

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

		(K
	Application No	0.	Applicant(s)	
	09/690,183		KACHI ET AL.	
Notice of Allowability	Examiner		Art Unit	
	Roberto J Rios		2836	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31 1. ☑ This communication is responsive to Response with engli 2. ☑ The allowed claim(s) is/are 1-9 and 11-16. 3. ☑ The drawings filed on 17 October 2000 are accepted by the discontinuous properties of the claim for foreign priority units and continuous properties. All b) ☐ Some* c) ☐ None of the:	S (OR REMAINS) or other appropriate of the control	CLOSED in this a riate communication is subject 8. d on 08/15/2003.	pplication. If not inclu on will be mailed in du	ded e course. THIS
1. ☑ Certified copies of the priority documents hav	e been received.			
2. Certified copies of the priority documents have		n Application No.		
3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		• •		ation from the
 5. Acknowledgment is made of a claim for domestic priority to (a) The translation of the foreign language provisional 6. Acknowledgment is made of a claim for domestic priority to the foreign language. 	application has be under 35 U.S.C. §	een received. § 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this application.	THIS THREE-MO	ONTH PERIOD IS NO	T EXTENDABLE
 A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gives rea 	mitted. Note the a son(s) why the oa	ittached EXAMINE ath or declaration i	ER'S AMENDMENT or s deficient.	NOTICE OF
8. CORRECTED DRAWINGS must be submitted.				
(a) including changes required by the Notice of Draftspe	erson's Patent Dra	wing Review (PT	O-948) attached	
1) hereto or 2) to Paper No				
(b) including changes required by the proposed drawing				
(c) including changes required by the attached Examine	er's Amendment /	Comment or in the	Office action of Pape	r No
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should be	written on the draw	vings in the front (not t	ne back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR 	osit of BIOLOGI THE DEPOSIT O	CAL MATERIAL F BIOLOGICAL M	must be submitted. ATERIAL.	Note the
Attachment(s)	·			
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4 6 8	☐ Interview Sumi ☐ Examiner's Am	mal Patent Application mary (PTO-413), Paper mendment/Comment atement of Reasons for metallic and the comment atempt of Reasons for the comment atempt of Reasons for the comment of the c	er No

Page 2

Application/Control Number: 09/690,183

Art Unit: 2836

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

Cancel claims 10, 17 and 18.

Allowable Subject Matter

- 2. This application is in condition for allowance except for the presence of claims 10, 17 and 18 to invention non-elected without traverse. Accordingly, claims 10, 17 and 18 have been cancelled. See MPEP∮821.02.
- 3. Claims 1-9, and 11-16 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: Reasons for allowing claims 3 and 5-8 were previously indicated in the last office action mailed on 05/28/2003. As per claims 1, 2 and 11, the prior art (US patents 6,323,608; 6,271,645) teaches the claimed invention. However, applicant's effective foreign filing date antecedes said prior art references.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/690,183 Page 3

Art Unit: 2836

5. Art of general nature relating to battery charging/discharging control has been cited for applicant's review.

Communication with PTO

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rios whose telephone number is (703) 306-5518. In the event that Examiner Rios cannot be reached, his supervisor, Brian Sircus may be contacted at (703) 308-3119. The fax number for Before-Final communications and After-Final communications is (703) 872-9306.

Roberto J. Rios Patent Examiner